

## SEARCH REQUEST FORM

## Scientific and Technical Information Center

Lakshmi

Requester's Full Name: S. Channavajjal Examiner #: 74459 Date: 8/28/03  
 Art Unit: \_\_\_\_\_ Phone Number 30 Serial Number: 101 D69220  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cosmetic Composit - - Neutralized Water Soluble - -  
 Inventors (please provide full names): Isabelle Rollat-Corvol organization compds.  
Henri Samain

Earliest Priority Filing Date: 9/2/99

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

1. Please perform a search on  
Organosilicon compd (as described in cl 1) +  
a neutralizing agent (§ cl. 1)
  2. Please do search for the Organosilicon  
Compds (of 2 formulas) § cl. 5  
with neutralizing agents § (cl. 1 +  
and cl. 7).
- thanks  
S. Channavajjal

\*\*\*\*\*  
STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Point of Contact:</u> <u>Alexandra Waclawiw</u>	NA Sequence (#): <u>STN</u>	\$ <u>248</u>
Searcher Phone: <u>Technical Info. Specialist</u>	AA Sequence (#): <u>Dialog</u>	
Searcher Loc: <u>GM1 6A02 Tel: 308-4491</u>	Structure (#): <u>(1) V</u>	Questel/Orbit
Date Searcher Picked Up: <u>9-4-03</u>	Bibliographic	Dr. Link
Date Completed: <u>9-4-03</u>	Litigation	Lexis/Nexis
Searcher Prep & Review Time: <u>16</u>	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time: <u>42</u>	Other	Other (specify)

(FILE 'HCAPLUS' ENTERED AT 12:40:06 ON 04 SEP 2003)  
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 12:42:37 ON 04 SEP 2003  
ACT CHANN/A

-----  
L1 STR  
L2 6485 SEA FILE=REGISTRY SSS FUL L1  
-----  
L3 E SULFURIC ACID/CN  
1 S E3

FILE 'HCAPLUS' ENTERED AT 12:42:55 ON 04 SEP 2003  
L4 16488 S L2  
L5 113609 S L3 OR SULFURIC ACID#  
L6 128 S L4 AND L5  
L7 92856 S NEUTRAL?  
L8 3 S L6 AND L7  
L9 409259 S NEUTRAL?/AB  
L10 5 S L6 AND L9  
L11 5 S L10 OR L8  
L12 81896 S SILOXANE  
L13 475 S L12 AND L5  
L14 68 S L13 AND 62/SX,SC  
L15 2 S L14 AND (NEUTRAL? OR NEUTRAL?/AB)  
L16 6 S L15 OR L11  
L17 776 S L12 (L) (NONPOLYMER? OR NON POLYMER?)  
L18 12 S L17 AND L5  
L19 11 S L18 NOT L16  
L20 0 S L19 AND 62/SX,SC

FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003

FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003  
L21 51 S L4 AND L17  
L22 2 S L21 AND (NEUTRAL? OR L5)  
L23 1 S L22 NOT (L16)

=>

Channavajjale 10/069, 220

=> fil reg  
FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 SEP 2003 HIGHEST RN 577952-45-5  
DICTIONARY FILE UPDATES: 2 SEP 2003 HIGHEST RN 577952-45-5

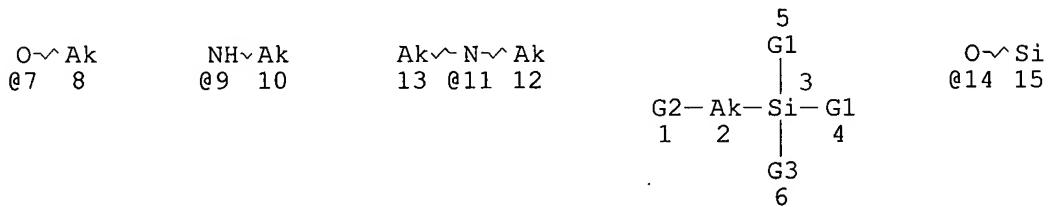
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d que stat 12  
L1 STR



VAR G1=X/OH/7  
VAR G2=NH2/9/11  
VAR G3=X/OH/7/14

VAR GS=X/ON/11/14  
NODE ATTRIBUTES:

NODE ATTRIBUTES:  
DEFAULT-MLEVEL IS ATOM  
DEFAULT-ELLEVEL IS LIMITED

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

12 6485 SEA FILE=REGISTRY SSS FIL 11

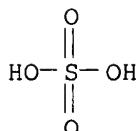
100.0% PROCESSED 164740 ITERATIONS  
SEARCH TIME: 00.00.10

6485 ANSWERS

=> d que 13;d 13

L3. 1 SEA FILE=REGISTRY ABB=ON PLU=ON "SULFURIC ACID"/CN

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 7664-93-9 REGISTRY  
CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN BOV  
CN Brimstone acid  
CN Contact acid  
CN Dihydrogen sulfate  
CN Dipping acid  
CN NSC 248648  
CN NSC 38965  
CN Oil of vitriol  
CN Sulphuric acid  
CN Vitriol brown oil  
FS 3D CONCORD  
DR 127529-01-5, 119540-51-1, 140623-70-7  
MF H<sub>2</sub> O<sub>4</sub> S  
CI COM  
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,  
CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*,  
DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,  
GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS,  
NIOSHTIC, PDLCOM\*, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA,  
ULIDAT, USAN, USPAT2, USPATFULL, VTB  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

88629 REFERENCES IN FILE CA (1937 TO DATE)  
3998 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
88737 REFERENCES IN FILE CAPLUS (1937 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil hcaplus  
FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 4 Sep 2003 VOL 139 ISS 10  
FILE LAST UPDATED: 2 Sep 2003 (20030902/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his 14-

(FILE 'HCAPLUS' ENTERED AT 12:42:55 ON 04 SEP 2003)  
L4 16488 S L2  
L5 113609 S L3 OR SULFURIC ACID#  
L6 128 S L4 AND L5  
L7 92856 S NEUTRAL?  
L8 3 S L6 AND L7  
L9 409259 S NEUTRAL?/AB  
L10 5 S L6 AND L9  
L11 5 S L10 OR L8  
L12 81896 S SILOXANE  
L13 475 S L12 AND L5  
L14 68 S L13 AND 62/SX,SC  
L15 2 S L14 AND (NEUTRAL? OR NEUTRAL?/AB)  
L16 6 S L15 OR L11  
L17 776 S L12 (L) (NONPOLYMER? OR NON POLYMER?)  
L18 12 S L17 AND L5  
L19 11 S L18 NOT L16  
L20 0 S L19 AND 62/SX,SC                   62 = cosmetics

FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003

FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003

=> d .ca hitstr 116 1-6

L16 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 2001:167779 HCAPLUS  
DOCUMENT NUMBER: 134:197858  
TITLE: Cosmetic composition based on hardly or non-polymerized, water soluble and partly neutralized silicon organic compounds  
INVENTOR(S): Rollat-Corvol, Isabelle; Samain, Henri  
PATENT ASSIGNEE(S): L'Oreal, Fr.  
SOURCE: PCT Int. Appl., 20 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001015661	A1	20010308	WO 2000-FR2416	20000901
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2798063 A1 20010309 FR 1999-11025 19990902

EP 1207842 A1 20020529 EP 2000-960772 20000901

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 2003508417 T2 20030304 JP 2001-519875 20000901

PRIORITY APPLN. INFO.: FR 1999-11025 A 19990902  
 WO 2000-FR2416 W 20000901

OTHER SOURCE(S): MARPAT 134:197858

AB The invention concerns a compn. comprising, in a cosmetically acceptable aq. medium, at least 0.05 wt.% relative to the compn. total wt., one or several water sol. org. silicon compds., having one, two or three silicon atoms, at least a basic chem. function and at least two hydroxyl groups or capable of being hydrolyzed per mol., said org. silicon compds. being partly neutralized by a neutralizing agent, selected among sulfuric acid, sulfuric acid salts and mixts. thereof. The invention is applicable to hairstyling compns. An aq. soln. contained aminopropyltriethoxysilane 12 and sulfuric acid q.s. to neutralize silane and water q.s. 100 g. The soln. was applied on hair and dried to obtain a homogeneous, transparent, flexible, non-brittle film.

IC ICM A61K007-06  
 ICS A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

ST hair prepn neutralized silicon sulfuric acid

IT Siloxanes (nonpolymeric)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (cosmetic compn. based on hardly or non-polymd., water sol. and partly neutralized silicon org. compds.)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(di-Me, amino-contg.; cosmetic compn. based on hardly or non-polymd., water sol. and partly neutralized silicon org. compds.)

IT Hair preparations

(permanent wave; cosmetic compn. based on hardly or non-polymd., water sol. and partly neutralized silicon org. compds.)

IT 919-30-2, Aminopropyltriethoxysilane

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(cosmetic compn. based on hardly or non-polymd., water sol. and partly neutralized silicon org. compds.)

IT 7664-93-9, Sulfuric acid, reactions

7664-93-9D, Sulfuric acid, alkali salts,  
 reactions 7783-20-2, Ammonium sulfate, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

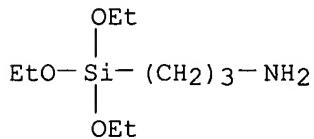
(cosmetic compn. based on hardly or non-polymd., water sol. and partly neutralized silicon org. compds.)

IT 919-30-2, Aminopropyltriethoxysilane

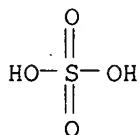
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(cosmetic compn. based on hardly or non-polymd., water sol. and partly neutralized silicon org. compds.)

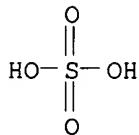
RN 919-30-2 HCPLUS  
 CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



IT 7664-93-9, Sulfuric acid,, reactions  
 7664-93-9D, Sulfuric acid, alkali salts,  
 reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cosmetic compn. based on hardly or non-polymd., water sol. and partly  
 neutralized silicon org. compds.)  
 RN 7664-93-9 HCPLUS  
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



RN 7664-93-9 HCPLUS  
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1996:73522 HCPLUS  
 DOCUMENT NUMBER: 124:118270  
 TITLE: Manufacture of silicate resins  
 INVENTOR(S): Kimura, Tsuneo; Kozai, Toshuki  
 PATENT ASSIGNEE(S): Shinetsu Chem Ind Co, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07286043	A2	19951031	JP 1994-102353	19940415
JP 2914868	B2	19990705		
PRIORITY APPLN. INFO.:			JP 1994-102353	19940415

AB Alkyl silicates with SiO<sub>2</sub> and/or their partially hydrolysis compds., organosiloxanes with (R<sub>1</sub>)<sub>a</sub>SiO(4-a)/2 (R<sub>1</sub> = H, (substituted) monovalent hydrocarbons; a = 1-3), and .gtoreq.1 acid catalyst selected from sulfonic acid compds. and phosphonitrilic chloride are treated in the presence of water, the catalysts are **neutralized**, and the product is treated with organosiloxanes (R<sub>1</sub>)<sub>b</sub>(R<sub>2</sub>)<sub>c</sub>SiX(4-b-c) (R<sub>1</sub>, R<sub>2</sub> = monovalent reactive org. groups; X = alkoxy, OH; b = 0-2, c = 1-3, 1.ltoreq.b + c.ltoreq.3) to give title polymers with SiO<sub>2</sub> and reactive org. groups, useful for adhesives, coatings, etc. Thus, hexamethyldisiloxane 162.4, Et silicate 40 150.0, 98%-sulfuric acid 2, and water 36 g were mixed, **neutralized**, and treated with 179 g .gamma.-aminopropyltrimethoxysilane for 6 h to give a silicate resin contg. amino groups.

IC ICM C08G077-06

CC 35-2 (Chemistry of Synthetic High Polymers)  
Section cross-reference(s): 37, 38

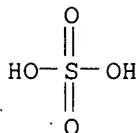
IT 104-15-4, p-Toluenesulfonic acid, uses **7664-93-9**,  
**Sulfuric acid**, uses  
RL: CAT (Catalyst use); USES (Uses)  
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

IT 107-46-0DP, Hexamethyldisiloxane, reaction products with alkyl silicates  
681-84-5DP, Tetramethoxysilane, reaction products with organopolysiloxanes  
2530-83-8DP, .gamma.-Glycidoxypropyltrimethoxysilane, reaction products with alkyl silicates 2627-95-4DP, 1,3-Divinyl-1,1,3,3-tetramethyldisiloxane, reaction products with alkyl silicates  
4369-14-6DP, (Acryloyloxy)propyltrimethoxysilane, reaction products with alkyl silicates 4420-74-0DP, .gamma.-Mercaptopropyltrimethoxysilane, reaction products with alkyl silicates 11099-06-2DP, Ethyl silicate 40, reaction products with organopolysiloxanes **13822-56-5DP**, .gamma.-Aminopropyltrimethoxysilane, reaction products with alkyl silicates  
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

IT **7664-93-9, Sulfuric acid**, uses  
RL: CAT (Catalyst use); USES (Uses)  
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

RN 7664-93-9 HCPLUS

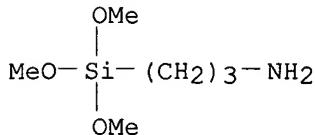
CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



IT **13822-56-5DP**, .gamma.-Aminopropyltrimethoxysilane, reaction products with alkyl silicates  
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

RN 13822-56-5 HCPLUS

CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



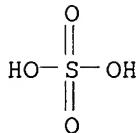
L16 ANSWER 3 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1992:66929 HCPLUS  
 DOCUMENT NUMBER: 116:66929  
 TITLE: Cosmetic sunscreen composition  
 INVENTOR(S): Nicoll, Gregg Alan; Ojo-Osagie, Ann Camilla; Pereira, Mavis Claire  
 PATENT ASSIGNEE(S): Unilever PLC, UK; Unilever N. V.  
 SOURCE: Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 456459	A2	19911113	EP 1991-304099	19910507
EP 456459	A3	19920108		
EP 456459	B1	19940323		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
CA 2041917	AA	19911111	CA 1991-2041917	19910507
AU 9176406	A1	19911114	AU 1991-76406	19910507
AU 636483	B2	19930429		
IN 172888	A	19931225	IN 1991-BO127	19910507
AT 103170	E	19940415	AT 1991-304099	19910507
ES 2062683	T3	19941216	ES 1991-304099	19910507
GB 2243780	A1	19911113	GB 1991-10187	19910510
GB 2243780	B2	19940525		
JP 04226906	A2	19920817	JP 1991-106019	19910510
JP 07045375	B4	19950517		
ZA 9103552	A	19930127	ZA 1991-3552	19910510
US 5196187	A	19930323	US 1991-698412	19910510
PRIORITY APPLN. INFO.:			GB 1990-10525	19900510
			EP 1991-304099	19910507

AB A water-in-silicone oil emulsion, suitable for topical application to skin or hair, comprises a volatile polydimethylsiloxane 1-50, a silicone surfactant 0.1-25, a C3-28 2-hydroxyalkanoic acid or salt or soap 0.1-10, ultrafine TiO<sub>2</sub> (1-100 nm av. particle size) 1-10, an inorg. electrolyte 0.001-10 wt.%, and water. The compn. provides enhanced protection from the damaging effects of sunlight or adverse climate conditions, is exceptionally stable, and retains superior sensory attributes. A fluid cream with an SPF (sun protection factor) of 12.6 contained volatile siloxane (DC 345) 8.20, silicone surfactant (DC 3225C) 12.00, petroleum jelly 0.50, mineral oil 1.50, Parsol MCX (octyl methoxycinnamate) 3.00, ultrafine TiO<sub>2</sub> (oil-dispersible) 2.00, NaCl 2.00, butylene glycol 10.00, L-proline 0.10, 2-hydroxyoctanoic acid 1.00, 2-hydroxypropanoic acid 5.00 wt./wt.%, and neutralizing agent, preservative, perfume, water q.s.

IC ICM A61K007-48

CC ICS A61K007-06; A61K007-00  
 CC 62-4 (Essential Oils and Cosmetics)  
 IT Siloxanes and Silicones, biological studies  
 RL: BIOL (Biological study)  
 (surfactants, water-in-oil emulsion contg.)  
 IT Polyoxyalkylenes, biological studies  
 RL: BIOL (Biological study)  
 (di-Me siloxane-, water-in-silicone oil emulsion sunscreen  
 contg.)  
 IT Siloxanes and Silicones, biological studies  
 RL: BIOL (Biological study)  
 (di-Me, polyoxyalkylene-, water-in-silicone oil emulsion sunscreen  
 contg.)  
 IT 50-21-5, biological studies 57-55-6, Propane-1,2-diol, biological  
 studies 110-63-4, Butane-1,4-diol, biological studies 147-85-3,  
 L-Proline, biological studies 463-79-6D, Carbonic acid, alkali metal  
 salts 504-63-2, Propane-1,3-diol 506-87-6 513-85-9, Butane-2,3-diol  
 541-02-6 556-67-2 617-73-2 1314-13-2, Zinc oxide, biological studies  
 1332-37-2, Iron oxide, biological studies 5466-77-3 7631-86-9, Silica,  
 biological studies 7647-14-5, Sodium chloride, biological studies  
 7664-93-9D, Sulfuric acid, alkali metal salts  
 7783-20-2, Sulfuric acid diammonium salt, biological  
 studies 13463-67-7, Titanium dioxide, biological studies  
 RL: BIOL (Biological study)  
 (water-in-silicone oil emulsion sunscreen contg.)  
 IT 7664-93-9D, Sulfuric acid, alkali metal salts  
 RL: BIOL (Biological study)  
 (water-in-silicone oil emulsion sunscreen contg.)  
 RN 7664-93-9 HCAPLUS  
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN.  
 ACCESSION NUMBER: 1991:170003 HCAPLUS  
 DOCUMENT NUMBER: 114:170003  
 TITLE: Manufacture of phenol-formaldehyde binders for  
 moisture-resistant inorganic fibrous insulating  
 materials  
 INVENTOR(S): Sachse, Ursula; Schindler, Hans Thomas; Winkler, Rolf;  
 Hennersdorf, Reinert; Schlieter, Lutz; Brueckner,  
 Volker; Reineke, Karin; Gessner, Bernd; Wedekind,  
 Karin  
 PATENT ASSIGNEE(S): VEB Elguwa Leipzig, Ger. Dem. Rep.  
 SOURCE: Ger. (East), 3 pp.  
 CODEN: GEXXA8  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----

DD 285502 A7 19901219 DD 1988-324158 19881228  
 PRIORITY APPLN. INFO.: DD 1988-324158 19881228

AB In the title process, in which PhOH is reacted with H<sub>2</sub>CO in mol. ratio 1:(2-3.5) at .ltoreq.338 K in the presence of a catalyst for an H<sub>2</sub>CO conversion of .gtoreq.60%, after which the mixt. is cooled to .apprx.308 K, and, before use, mixed with .ltoreq.0.2% (based on solids content of the resin) silane as a crosslinking agent, NaOH is used as a condensation catalyst in amts. of .ltoreq.1 wt.%, and, before use, the resin is mixed with an aq. soln. of H<sub>2</sub>SO<sub>4</sub> and (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, or H<sub>2</sub>SO<sub>4</sub>, contg. 105-2000% of the amt. needed to **neutralize** the catalyst, and a pH of 5.8-6.2, preferably 5.9-6.1, is obtained. These resols are esp. suitable for bonding mineral wool or glass fibers. Mineral wool-based thermal insulators manufd. with a binder prep'd. with NaOH, (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>, and .gamma.-aminopropyltrimethoxysilane, had residual bending strength 74% after storage at 313 K and relative humidity 95% for 28 days.

IC ICM C08G008-10  
 ICS C08L061-06; C04B026-12

CC 57-6 (Ceramics)  
 Section cross-reference(s): 37

ST fibrous thermal insulator binder; mineral wool thermal insulator binder; phenol formaldehyde resol binder; ammonium sulfate resol; **sulfuric acid** resol; sodium hydroxide catalyst resol

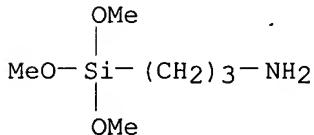
IT 13822-56-5, .gamma.-Aminopropyltrimethoxysilane  
 RL: USES (Uses)  
 (adhesion-promoting agent, for resol binders, in moisture-resistant fibrous thermal insulator manuf.)

IT 7664-93-9P, **Sulfuric acid**, uses and miscellaneous  
 RL: PREP (Preparation); USES (Uses)  
 (**neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

IT 7783-20-2, Ammonium sulfate, uses and miscellaneous  
 RL: USES (Uses)  
 (**sulfuric acid** contg., **neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

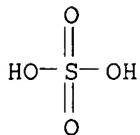
IT 13822-56-5, .gamma.-Aminopropyltrimethoxysilane  
 RL: USES (Uses)  
 (adhesion-promoting agent, for resol binders, in moisture-resistant fibrous thermal insulator manuf.)

RN 13822-56-5 HCPLUS  
 CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



IT 7664-93-9P, **Sulfuric acid**, uses and miscellaneous  
 RL: PREP (Preparation); USES (Uses)  
 (**neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

RN 7664-93-9 HCPLUS  
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 5 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1991:170002 HCPLUS  
 DOCUMENT NUMBER: 114:170002  
 TITLE: Preparation of modified phenol-formaldehyde binders  
 for the manufacture of moisture-resistant inorganic  
 fibrous insulating materials  
 INVENTOR(S): Sachse, Ursula; Schindler, Hans Thomas; Winkler, Rolf;  
 Hennersdorf, Reinert; Schlieter, Lutz; Brueckner,  
 Volker; Reineke, Karin; Schlotzhauer, Hans Juergen;  
 Wedekind, Karin  
 PATENT ASSIGNEE(S): VEB Elguwa Leipzig, Ger. Dem. Rep.  
 SOURCE: Ger. (East), 4 pp.  
 CODEN: GEXXA8  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 285503	A7	19901219	DD 1988-324159	19881228
PRIORITY APPLN. INFO.:			DD 1988-324159	19881228
AB In the title process, in which PhOH is reacted with H <sub>2</sub> CO in mol. ratio 1:(2-3.5) at .ltoreq.338 K in the presence of a catalyst for an H <sub>2</sub> CO conversion ratio of .gtreq.60%, after which the mixt. is modified at .ltoreq.303 K with .ltoreq.20 wt.% urea and, before use, mixed with .ltoreq.0.2% (based on solids content of the resin) silane as a crosslinking agent, NaOH is used as a condensation catalyst in amts. of .ltoreq.1 wt.%, and, before use, the resin is mixed with an aq. soln. of H <sub>2</sub> SO <sub>4</sub> and (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , or H <sub>2</sub> SO <sub>4</sub> , contg. 102-200% of the amt. needed to neutralize the catalyst, and a pH of 6.8-7.6, preferably 7.0-7.2, is obtained. These resols are esp. suitable for bonding mineral wool or glass fibers. Mineral wool-based thermal insulators manufd. with a binder prep'd. with urea, NaOH, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> SO <sub>4</sub> , and .gamma.-aminopropyltrimethoxysilane, had residual bending strength 72.5% after storage at 313 K and relative humidity 95% for 28 days.				
IC	ICM C08G008-28			
CC	ICS C04B026-12; C08L061-06; C08G014-08			
CC	57-6 (Ceramics)			
ST	Section cross-reference(s): 37			
ST	fibrous thermal insulator binder; mineral wool thermal insulator binder; phenol formaldehyde urea resol binder; ammonium sulfate resol; sulfuric acid resol; sodium hydroxide catalyst resol			
IT	<b>13822-56-5</b> , .gamma.-Aminopropyltrimethoxysilane			
IT	RL: MOA (Modifier or additive use); USES (Uses) (crosslinking agent, for resols, in moisture-resistant fibrous thermal insulator manuf.)			
IT	<b>7664-93-9P</b> , Sulfuric acid, uses and miscellaneous			
IT	RL: PREP (Preparation); USES (Uses)			

(neutralization with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

IT 7783-20-2, Ammonium sulfate, uses and miscellaneous

RL: USES (Uses)

(sulfuric acid contg., neutralization with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

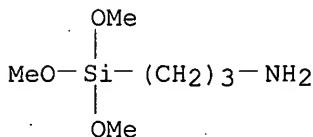
IT 13822-56-5, .gamma.-Aminopropyltrimethoxysilane

RL: MOA (Modifier or additive use); USES (Uses)

(crosslinking agent, for resols, in moisture-resistant fibrous thermal insulator manuf.)

RN 13822-56-5 HCAPLUS

CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



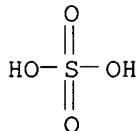
IT 7664-93-9P, Sulfuric acid, uses and miscellaneous

RL: PREP (Preparation); USES (Uses)

(neutralization with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

RN 7664-93-9 HCAPLUS

CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1966:428190 HCAPLUS

DOCUMENT NUMBER: 65:28190

ORIGINAL REFERENCE NO.: 65:5193d-g

TITLE: Glass fiber product

INVENTOR(S): Tiede, Ralph L.

PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corp.

SOURCE: 5 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

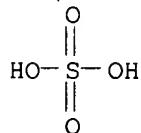
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

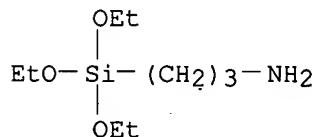
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3253948		19660531	US	19620212
AB	CA 48, 4793a; U.S. 2,308,857, CA 37, 38977. A hardened adhesive coating contg. an aq. phenolic resol and 0.02-2.0% (.gamma.-			

aminopropyl)triethoxysilane (I), based on the wt. of the coating, is added to the surface of the glass fibers. The compn. of the glass fibers is SiO<sub>2</sub> 53-62, Al<sub>2</sub>O<sub>3</sub> 4-8, CaO 18-22, MgO 5-9, and Na<sub>2</sub>O, K<sub>2</sub>O, and Li<sub>2</sub>O 9-13%. The glass may contain .1toreq.2% B<sub>2</sub>O<sub>3</sub>, .1toreq.0.5% MnO and TiO<sub>2</sub>, and a small amt. (as impurity) of Fe<sub>2</sub>O<sub>3</sub>. The sum of Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub> and the sum of Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, and B<sub>2</sub>O<sub>3</sub> must be from 59 to 66%. In the preferred compn. the glass contains 19-21% CaO and 6-8% MgO. A phenolic resin is formed from a mol. ratio of HCHO:PhOH of 1.25:1 to 2.5:1 and the application of heat with I at atm. pressure to an infusible, cross-linked condition. For example, fibers were drawn from SiO<sub>2</sub> 53.53, Al<sub>2</sub>O<sub>3</sub> 7.94, CaO 20.66, MgO 6.91, (Na<sub>2</sub>O, K<sub>2</sub>O, and Li<sub>2</sub>O) 10.99, MnO 0.24, TiO<sub>2</sub> 0.12, and Fe<sub>2</sub>O<sub>3</sub> 0.21%. A 10% resin solids soln. prep'd. from 180 parts HCHO (37% aq. soln.), 100 parts PhOH, and 4 parts NaOH was applied to the glass fibers with and without the addn. of 0.05% I. The materials were mixed in a vessel, allowed to stand at room temp. (approx. 25.degree.) for 16 hrs., and heated at a progressively increasing temp. which was sufficient to maintain gentle boiling. Heating was discontinued when the reaction mixt. reached 85.degree.. The NaOH was neutralized with H<sub>3</sub>PO<sub>4</sub> and the neutralized resin filtered to remove pptd. Na<sub>3</sub>PO<sub>4</sub>. The following results were obtained:

NCL 117126000  
 CC 21 (Ceramics)  
 IT 7664-93-9, **Sulfuric acid**  
     (glass fiber prespinning treatment with)  
 IT 919-30-2, Propylamine, 3-(triethoxysilyl)-  
     (phenol condensation products contg., coating with, on glass fibers)  
 IT 7664-93-9, **Sulfuric acid**  
     (glass fiber prespinning treatment with)  
 RN 7664-93-9 HCPLUS  
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



IT 919-30-2, Propylamine, 3-(triethoxysilyl)-  
     (phenol condensation products contg., coating with, on glass fibers)  
 RN 919-30-2 HCPLUS  
 CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



=> d que nos

L1	STR			
L2	6485 SEA FILE=REGISTRY SSS FUL L1			
L3	1 SEA FILE=REGISTRY ABB=ON PLU=ON "SULFURIC ACID"/CN			
L4	16488 SEA FILE=HCAPLUS ABB=ON PLU=ON L2			
L5	113609 SEA FILE=HCAPLUS ABB=ON PLU=ON L3 OR SULFURIC ACID#/OBI			
L6	128 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L5			
L7	92856 SEA FILE=HCAPLUS ABB=ON PLU=ON NEUTRAL?/OBI			
L8	3 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND L7			
L9	409259 SEA FILE=HCAPLUS ABB=ON PLU=ON NEUTRAL?/AB			
L10	5 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND L9			
L11	5 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 OR L8			
L12	81896 SEA FILE=HCAPLUS ABB=ON PLU=ON SILOXANE/OBI			
L13	475 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L5			
L14	68 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND 62/SX, SC			
L15	2 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND (NEUTRAL?/OBI OR NEUTRAL?/AB)			
L16	6 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 OR L11			
L17	776 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 (L) (NONPOLYMER?/OBI OR NON POLYMER?/OBI)			
L21	51 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L17			
L22	2 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (NEUTRAL?/OBI OR L5)			
L23	1 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 NOT (L16)			

=> d .ca hitstr 123

L23 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2000:371880 HCAPLUS  
 DOCUMENT NUMBER: 132:339026  
 TITLE: Hair-styling composition based on organosilicone  
 compounds, slightly or nonpolymerized, water-soluble,  
 and partially neutralized  
 INVENTOR(S): Samain, Henri; Rollat, Isabelle; Jeanne, Rose Valerie;  
 Sanchez, Clement  
 PATENT ASSIGNEE(S): L'Oreal S. A., Fr.  
 SOURCE: Fr. Demande, 16 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2783164	A1	20000317	FR 1998-11571	19980916
PRIORITY APPLN. INFO.:			FR 1998-11571	19980916
OTHER SOURCE(S):	MARPAT	132:339026		

AB An aq. cosmetic compn. contains an organosilicone partially neutralized.  
 A soln. of aminopropyltriethoxysilane 12, HCl 0.25, and water q.s. 100 g  
 was prep'd. The compn. produced good quality curls.  
 IC ICM A61K007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT Carboxylic acids, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (dicarboxylic; hair-styling compn. based on organosilicone compds.,  
 slightly or nonpolymd., water-sol., and partially neutralized  
 )  
 IT Carboxylic acids, reactions

**Siloxanes (nonpolymeric)**

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hair-styling compn. based on organosilicone compds., slightly or  
 nonpolymd., water-sol., and partially **neutralized**)

IT Acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (org.; hair-styling compn. based on organosilicone compds., slightly or  
 nonpolymd., water-sol., and partially **neutralized**)

IT Hair preparations

(permanent wave; hair-styling compn. based on organosilicone compds.,  
 slightly or nonpolymd., water-sol., and partially **neutralized**)  
 )

IT Carboxylic acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (tricarboxylic acids; hair-styling compn. based on organosilicone  
 compds., slightly or nonpolymd., water-sol., and partially  
**neutralized**)

IT 919-30-2

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hair-styling compn. based on organosilicone compds., slightly or  
 nonpolymd., water-sol., and partially **neutralized**)

IT 7647-01-0, Hydrochloric acid, reactions 7697-37-2, Nitric acid,  
 reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hair-styling compn. based on organosilicone compds., slightly or  
 nonpolymd., water-sol., and partially **neutralized**)

IT 919-30-2

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hair-styling compn. based on organosilicone compds., slightly or  
 nonpolymd., water-sol., and partially **neutralized**)

RN 919-30-2 HCPLUS

CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)

